

Hudson River PCB Superfund Site Project Roadmap

August 2004 Update

Introduction

During the design of the selected dredging project for the Upper Hudson River, more than 40 technical documents, data summary reports, and work plans will be developed which, when approved by EPA, will provide the details for the Hudson River cleanup.

The project milestones described in this document are a partial listing of the reports that will be prepared during design of the project. Each listing contains a description of the major issues addressed in each report and highlights some of the planned public involvement activities. Also provided is a description of some of the design documents that have already been completed and the major issues addressed in each report.

EPA plans to submit many technical documents (or excerpts from the document as appropriate) for public review and input, which generally means dialogue and discussion with EPA staff, and/or public comment, which is a more formal review that involves written comments and responses. Other reports will be made available to the

public after EPA approves them but will not be part of a formal public review/comment process. Most of these documents are or will be available for viewing on EPA's Web Site at www.epa.gov/hudson or in the seven information repositories located in Glens Falls, Hudson Falls (Hudson River Field Office), Ballston Spa, Albany, Poughkeepsie, Manhattan (EPA Region 2 Offices), and in Edgewater, New Jersey.

The intent of this roadmap is to illustrate the general sequence of events during the design period leading up to Phase 1 dredging. The dates provided in this roadmap are an estimate of when EPA will release the documents to the public for public review or comment. It is important to understand that many of the documents build upon earlier investigations, analyses, and reports. Final public release dates depend upon completion of this earlier work and EPA approval and are subject to change.



Hudson River PCB Superfund Site Project Roadmap

Future Documents

Summer 2004

■ Supplemental Data Summary Report for Phase 1 Dredging

This report will combine the data presented in the draft Data Summary Report for Year 1 with the data collected in 2003 for areas in River Sections 1 and 2 that are currently being evaluated for Phase 1 dredging.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

Fall 2004

■ Dredge Area Delineation Report for Phase 1 Dredging

This report will identify areas that will be dredged in the three locations currently being evaluated for Phase 1 dredging: (1) the northern part of River Section 1; (2) near Griffin Island in River Section 1; and (3) near Northumberland in River Section 2. This report will describe where and to what depth, within these areas, dredging will occur. (Note: Dredge areas may be modified during the intermediate Design Phase to address design considerations such as bridges abutments, buried utilities, sensitive habitats, etc.).

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Input

■ Target Area Identification Report for Phase 1 Dredging / EPA's Selection of Phase 1 Dredge Areas

Of the areas identified for dredging in the Dredge Area Delineation Report for Phase 1 Dredging, this report will provide GE's recommendation for areas to be dredged during Phase 1. EPA will use this document to identify areas to be dredged during Phase 1. Areas identified for dredging in the Dredge Area Delineation but not selected for Phase 1 will be dredged during Phase 2.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

■ Data Summary Report for Year 2 Sampling

This report will present sediment-sampling results for areas in River Sections 2 and 3 that were sampled as part of the Year 1 and Year 2 Sediment Sampling Programs.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Input

Fall 2004 (Cont.)

■ Facility Siting Report (Final)

This report will be an update of the Draft Facility Siting Report that was released for public review and comment in May 2004. The Draft Facility Siting Report summarizes the facility siting process from the initial Concept Document to the identification of Suitable and Recommended sites. The draft report also describes how final candidate sites were evaluated and selected. The final report will be updated based on review of comments received during the public comment period on the Draft Facility Siting Report.

Planned Public Involvement - CAG / Stakeholder Update

■ Facility Siting Decision Document

EPA will issue a document notifying the public on its final decision on the dewatering facility location(s) for Phase 1 and Phase 2 dredging and explain the reasons for the decision.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Sessions at Host Communities



Winter 2004/2005

■ Habitat Delineation and Assessment Report for Phase 1 Dredging

This report will identify the findings of the habitat delineation and assessment that documents the existing range of habitat conditions in the river and along the shoreline that could be affected by dredging. These areas identified by EPA where Phase 1 dredging could occur are: (1) the northern part of River Section 1; (2) near Griffin Island in River Section 1; and (3) near Northumberland in River Section 2. The work will support the design of habitat replacement and reconstruction following dredging.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

Spring 2005

■ Archaeological Resources Assessment Report for Phase 1 Dredging

The report will identify and evaluate locations in these areas that may contain culturally or archaeologically sensitive resources. If dredging is planned for these areas, recommendations will be made to either avoid these areas or implement measures to protect the resources.

Planned Public Involvement - CAG / Stakeholder / Consulting Party Update, Public Input



Spring 2005 (Cont.)

■ Intermediate Design Report for Phase 1 Dredging

This report will evaluate the existing technologies identified in the Preliminary Design Report for effective implementation of the Hudson River project. It will address the requirements of EPA's Quality of Life and Engineering Performance Standards, and will incorporate results of the sediment-sampling program and the treatability studies. This report will also specify the following for Phase 1: dredging technology (hydraulic, mechanical or a combination of both) and equipment to be used; any measures that will be used to control PCB resuspension; how water will be extracted from dredged material and treated at the on-land sediment processing and water treatment facility (ies); and how sediments will be transported to final disposal locations.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Input, Public Sessions

■ Dredge Area Delineation Report for Phase 2 Dredging

This report will identify areas to be dredged during Phase 2. All Phase 1 candidate areas that are not dredged during Phase 1 will be dredged in Phase 2. Based on data collected in the areas targeted for dredging, this report will describe where and to what depth dredging will occur. (Note: Dredge areas may be modified during the intermediate Design Phase to address design considerations such as bridge abutments, buried utilities, sensitive habitats, etc.).

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Input

■ Summary Report of Baseline Monitoring Data

This report will describe pre-dredging or "baseline" conditions, including PCB concentrations, in the river's fish and water, following an analysis of data from 2004. These "baseline" conditions will be compared to river conditions during dredging. In addition, these data will be used in the future to help track the river's recovery after dredging is completed.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

Future Documents

Fall 2005

■ **Archaeological Resources Assessment Report for Phase 2 Dredging**

This report will describe the results of the cultural and archaeological resources assessment activities in areas to be dredged during Phase 2 dredging.

Planned Public Involvement - CAG / Stakeholder / Consulting Party Update, Public Input

■ **Final Design Report for Phase 1 Dredging**

This report will include the final details and specifications for Phase 1 of the dredging project. It will include comprehensive descriptions of the processes and systems to be used both in the river and at the on-land sediment processing and dewatering facility(ies).

Planned Public Involvement - CAG / Stakeholder Update, Public Input, Public Sessions

■ **Community Health and Safety Plan for Phase 1 Dredging**

This plan, which will be issued at the same time as the Final Design Report for Phase 1, will describe key health and safety personnel for Phase 1 and will include detailed health and safety plans to protect surrounding communities. It will also describe how local emergency personnel and the community will be contacted if an emergency has occurred. Additionally, this report will include what measures will be implemented to ensure local residents, communities, and water supplies are protected.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Comment Period, Public Sessions

■ **Environmental Monitoring Plan for Phase 1 Dredging**

This plan, which will be issued at the same time as the Final Design Report for Phase 1, will describe the methods that will be used to monitor the Phase 1 dredging operations so that those operations can be compared to EPA's performance standards.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

Winter 2005/2006

■ **Habitat Delineation and Assessment Report for Phase 2 Dredging**

This report will document the existing range of habitat conditions in the river and along the shoreline in the areas targeted for dredging in Phase 2. The work will support the design of habitat replacement and reconstruction following dredging.

Planned Public Involvement - CAG / Stakeholder Update, Public Input

■ **Intermediate Design Report for Phase 2 Dredging**

This report will evaluate the existing technologies identified in the Preliminary Design Report for effective implementation of the Hudson River project. It will address the requirements of EPA's Quality of Life and Engineering Performance Standards, and will incorporate results of the sediment-sampling program and the treatability studies. This report will also specify the following for Phase 2: dredging technology (hydraulic, mechanical or a combination of both) and equipment to be used; any measures that will be used to control PCB resuspension; how water will be extracted from dredged material and treated at the on-land sediment processing and water treatment facility(ies); and how sediments will be transported to final disposal locations.

Planned Public Involvement - CAG / Stakeholder Update, Public Input, Public Sessions



Summer 2006

■ Final Design Report for Phase 2 Dredging

This report will include the final details and specifications for Phase 2 dredging. It will include comprehensive descriptions of the processes and systems to be used both in the river and at the on-land sediment processing and dewatering facility(ies).

Planned Public Involvement - CAG / Stakeholder Update, Public Input, Public Sessions

■ Community Health and Safety Plan for Phase 2 Dredging

This plan, which will be issued at the same time as the Final Design Report for Phase 2, will describe key health and safety personnel for Phase 2 and will include detailed health and safety plans to protect surrounding communities. It will also describe how local emergency personnel and the community will be contacted if an emergency has occurred. Additionally, this report will include what measures will be implemented to ensure local residents, communities, and water supplies are protected.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet, Public Comment Period, Public Sessions

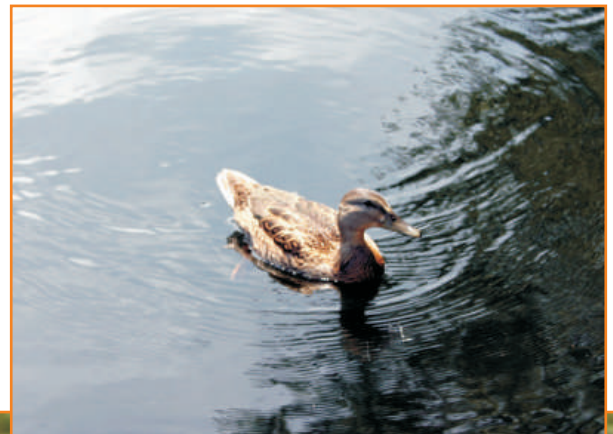


Summer 2006 (Cont.)

■ Environmental Monitoring Plan for Phase 2 Dredging

This plan, which will be issued at the same time as the Final Design Report for Phase 2, will describe the methods that will be used to monitor the Phase 2 dredging operations so that those operations can be compared to EPA's performance standards.

Planned Public Involvement - CAG / Stakeholder Update, Public Input



Hudson River PCB Superfund Site Project Roadmap

Completed Documents

2002

■ EPA Record of Decision (ROD) (February 2002)

The February 2002 Record of Decision calls for targeted environmental dredging and removal of approximately 2.65 million cubic yards of PCB-contaminated sediment from a 40-mile stretch of the Upper Hudson River.

Public Involvement - Public Comment Period on the Proposed Plan, Public Sessions (Pre- and post-ROD)

■ Sediment Sampling and Analysis Program Field Sampling Plan for Year 1 (July 2002)

This report, which provides the data needed to design the remedy, describes the 2002 sediment-sampling program, the methods used for sediment characterization, data management and evaluation, and reports submitted to EPA.

Public Involvement - Public Input, Public Session on the Draft Plan

■ Sediment Sampling Community Health and Safety Plan (September 2002)

This plan describes the key health and safety personnel for Sediment Sampling and includes detailed health and safety plans, including contingency plans, to protect surrounding communities. It also describes how local emergency personnel and the community will be contacted if an emergency has occurred. Additionally, this report includes what measures will be implemented to ensure local residents, communities, and water supplies are protected.

Public Involvement - Fact Sheet, Public Input on the Draft Plan, Public Sessions

■ Sediment Processing / Transfer Facilities Concept Document (December 2002)

- This report identifies the criteria and process that will be used to identify and select sites for the sediment dewatering facilities.

Public Involvement - Fact Sheet, Public Sessions

2003

■ Data Summary Report for Year 1 (Draft May 2003)

This draft document presents sediment-sampling results for areas sampled in 2002.

Public Involvement - Fact Sheet, Stakeholder Update

2003 (Cont.)

■ Sediment Processing / Transfer Facilities Technical Memorandum: Identification of Preliminary Sites (June 2003)

This report provides the results of the evaluations and screening used to identify the 24 preliminary candidate sites for the sediment dewatering facilities.

Public Involvement - Fact Sheet, Interim Advisory Group (IAG) / Stakeholder Update

■ Revised Community Health and Safety Plan (June 2003)

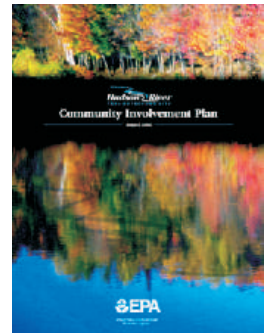
This report ensures that the fieldwork associated with design activities is done in a manner that is safe for the public and the environment.

Public Involvement - IAG / Stakeholder Update

■ Community Involvement Plan (Draft April 2003 - Final August 2003)

This plan builds on ongoing efforts to provide opportunities for meaningful public input on the implementation of EPA's cleanup plan for the Hudson River.

Public Involvement - Fact Sheet, IAG / Stakeholder Update, Public Comment Period on the Draft Plan, Public Sessions



■ Remedial Design Work Plan (Draft May 2003 - Final August 2003)

This work plan describes the steps in the design process, including the development of plans to remove sediments from the river bottom; process, dewater, and treat dredged materials; transport and dispose of dewatered sediments; and replace habitat in dredged areas.

Public Involvement - Fact Sheet, IAG / Stakeholder Update, Public Comment Period on the Draft Plan, Public Sessions

■ Baseline Monitoring Program Scoping Document (Draft May 2003 Final August 2003)

This report describes pre-dredging or "baseline" fish and water quality monitoring that will be used to evaluate whether dredging activities are achieving EPA's engineering performance standards and to track long-term recovery trends.

Public Involvement - Fact Sheet, IAG / Stakeholder Update, Public Comment Period on the Draft Plan, Public Sessions

2003 (Cont.)

■ **Cultural and Archaeological Resources Assessment Work Plan (Draft May 2003 - Final August 2003)**

This report is a plan to identify and evaluate cultural or archaeological resources or artifacts to ensure they are adequately protected during the project.

Public Involvement - Fact Sheet, IAG / Stakeholder Update, Public Comment Period on the Draft Plan, Public Sessions

■ **Habitat Delineation Assessment Work Plan (May 2003 - Final August 2003)**

This report develops a plan for determining the types and locations of aquatic and wildlife habitat.

Public Involvement - Fact Sheet, IAG / Stakeholder Update, Public Comment Period on the Draft Plan, Public Sessions

■ **Quality of Life Performance Standards (Draft December 2003)**

This document describes the draft quality of life performance standards intended to reduce the effects of the dredging, sediment processing, transfer, and dewatering, and support operations on people, businesses, recreation, and community activities in the project area. Quality of Life Performance Standards were developed for air quality, noise, odor, light and navigation.

Public Involvement - Community Advisory Group (CAG) / Stakeholder Update, Fact Sheets, Public Comment Period on the Draft Standards, Public Sessions (January 2004)

2004

■ **Preliminary Design Report (April 2004)**

The report conceptually describes Phase 1 and Phase 2 dredging process, from removal of sediment to disposal. It evaluates the full spectrum of existing dredging technologies, including dredging equipment; resuspension control measures; material handling and processing; dewatering and water treatment processes; transport to disposal locations; composition of backfill and capping materials; and habitat replacement. The report also includes design criteria based on EPA's draft performance standards, and other EPA criteria identified in the ROD (e.g., no transport of processed sediment by truck; dredged material to be disposed outside the Hudson River Valley).

Public Involvement - CAG / Stakeholder Update

■ **Treatability Studies Work Plan (April 2004)**

This work plan describes the studies used to help select equipment for sediment dewatering and handling and treatment of water that is removed from the sediments. These studies also provide information that will be used in refining procedures for loading and unloading barges; handling unprocessed sediment; and staging and loading dredged material and backfill.

Public Involvement - CAG / Stakeholder Update

2004 (Cont.)

■ **Final Engineering Performance Standards (Draft May 2003 Peer Review Draft October 2003 - Final April 2004)**

This report describes the final Engineering Performance Standards that will ensure the cleanup meets the objectives for protecting people's health and the environment and does not cause adverse health or environmental impacts.

Engineering performance standards were developed for dredging-related resuspension (to limit downstream transport of PCB-contaminated dredging material); dredging residuals (to evaluate the concentration of PCBs remaining in residual material remaining in dredged areas); and dredging productivity (designed to keep the dredging work on track so that the six-year period for dredging is maintained). The cleanup must be designed to ensure that the performance standards are achieved. The draft Engineering Performance Standards were released for public review and comment in May of 2003 and for peer review and comment in October 2003. A report summarizing the findings of the peer review and EPA's responses is included with the Final Engineering Performance Standards.

Public Involvement - CAG / Stakeholder Update, Fact Sheets, Public Comment Period on Draft Standards, Public Sessions on Draft Standards, Public Participation at Peer Review Sessions

■ **Draft Facility Siting Report (April 2004)**

This report summarizes the facility siting process from the initial Concept Document to the identification of Suitable and Recommended sites. The document describes how the final candidate sites were evaluated and selected. This report also presents conclusions about the feasibility of water-based facilities.

Public Involvement - CAG / Stakeholder Update, Public Comment Period on Draft Report, Public Sessions

■ **Final Quality of Life Performance Standards (May 2004)**

This document describes the final Quality of Life Performance Standards intended to reduce the effects of the dredging, sediment processing, transfer, and dewatering, and support operations on people, businesses, recreation, and community activities in the project area. This document reflects comments received from the public and the design team.

Planned Public Involvement - CAG / Stakeholder Update, Fact Sheet


The intent of this document is to provide the public with a general sequence of events during the remedial design period. Dates included estimate when documents will be approved by EPA and released to the public. It should be noted, however, that many of the documents build upon earlier investigations, analyses and reports. Final public release dates depend upon completion of this earlier work and EPA approval.



For More Information


Visit, call, or write to the Hudson River Field Office at the address below or log on to **www.epa.gov/hudson**.

EPA Contacts

 **Leo Rosales**
Public Affairs Specialist
Hudson River Field Office

421 Lower Main Street
Hudson Falls, NY 12839
(518) 747-4389 or (866) 615-6490 Toll-Free
hrfo@capital.net

The Field Office hours are Monday – Friday, 8:00 am – 4:30 pm, with evening hours by appointment.

 **David Kluesner**
Public Affairs Specialist
EPA Region 2 (NYC) Office

290 Broadway
New York, NY 10007
(212) 637-3653
kluesner.dave@epa.gov

EPA Superfund Regional Public Liaison

EPA Region 2 has designated a Regional Public Liaison as a point-of-contact for community concerns and questions about the federal Superfund program in New York, New Jersey, Puerto Rico, and the U.S. Virgin Islands. To support this effort, EPA has established a 24-hour, toll-free number that the public can call to request information, express concerns, or register complaints about Superfund. The Regional Public Liaison for EPA's Region 2 office is: George H. Zachos, U.S. EPA, Region 2, 2890 Woodbridge Avenue MS-211, Edison, New Jersey 08837, (732) 321-6621, Toll-free (888) 283-7626.